

Environmental
Restoration
Contractor

ERC Team

Interoffice Memorandum

0052025

040623

Job No. 22192

Written Response Required? NO
Closes CCN: N/A
OU: 200-ZP-1
TSD: N/A
ERA: N/A
Subject Code: 8630

TO: M. A. Buckmaster, H4-80
J. A. Lerch, BI-35

DATE: December 13, 1996

COPIES: See Below

FROM: R. T. Coffman
Onsite Measurement Services
H9-11/372-9373

SUBJECT: 200-ZP-1 PHASE II PERFORMANCE MONITORING, GROUNDWATER
RESULTS, NOVEMBER 1996, REV 0

REFERENCES:

1. BHI, 1996, *On-Site Measurements Quality Assurance Plan*, BHI-00852, REV 0, Bechtel Hanford, Inc., Richland, Washington.
2. BHI, 1995, *Field Screening Procedures*, BHI-EE-05, Bechtel Hanford, Inc., Richland, Washington.
3. BHI, 1995a, *200-ZP-1 Field Screening Support Logbook*, EL-1273, Bechtel Hanford, Inc., Richland, Washington.

This data package contains field screening results for groundwater samples analyzed to support 200-ZP-1 IRM Phase II performance monitoring. The Quality Assurance level for this work corresponds to QA-1 as specified in the reference 1 (BHI 1996). Samples collected and analyzed during October 1996 were managed under SAF B97-001.

Attachment 1 contains Volatile Organic Compound (VOC) results for groundwater samples collected to support the referenced project. The VOC results were generated using a Hewlett Packard 5890 gas chromatograph with a headspace autosampler operated in accordance with Field Screening Procedure (FSP) 1.1, *Aqueous Headspace Analysis of Volatile Organic Compounds in Water* (BHI 1995). Analysis of sample B0JKF2 (Trip Blank) indicated the presence of TCE just above the minimum detection limit of 2.0 µg/L. A second analysis was performed with the same results. Analysis results can be found on Attachment 1 of this report, and logbook EL-1273, page 108. Information concerning operation and calibration of the gas chromatograph is contained in the instrument logbook EL-1329. Please contact me if you have any questions on this information.

R. T. Coffman

R. T. Coffman, Engineer/Analyst

RTC:rtc



M. A. Buckmaster, H4-80

Page 2

Attachments:

Attachment 1. 200-ZP-1 IRM Phase II Performance Monitoring, Groundwater Results, November 1996

Attachment 2. Sample Chain of Custody Sheets

Copies:

J. R. Freeman-Pollard, H9-12, w/attachment 1 only

B. H. Ford, H0-02, w/attachment 1 only

I. D. Jacques, H9-10, w/attachment 1 only

R.B. Kerkow, H9-10, w/attachment 1 only

A. Hopkins, H9-11, w/attachment 1 only

T. D. LeFrancois, H9-03, w/attachment 1 only

D. A. Myers, H9-11, w/attachment 1 only

K. M. Singleton, H9-11, w/attachment 1 only

L. C. Swanson, H9-11, w/attachment 1 only

BHI Document Control, H4-79, w/original attachments

200-ZP-1 Phase II Performance Monitoring
Groundwater Results, November 1996
SAF B97-001

Sample Location	HEIS Number	Sample Date	Analysis Date	Chloroform (µg/L)	Carbon Tetrachloride (µg/L)	Trichloroethylene (µg/L)
299-W14-9	BOJKC0	11/8/96	11/18/96	22	420	10
Duplicate @ 299-W14-9	BOJKD5	11/8/96	11/18/96	23	490	12
299-W15-4	BOJKC1	11/7/96	11/18/96	23	470	<2.0
299-W15-7	BOJ2F4	11/11/96	11/19/96	61	2100	15
299-W15-10	BOJ2F5	11/12/96	11/19/96	28	2500	11
299-W15-11	BOJ2F6	11/5/96	11/13/96	32	2200	5.9
299-W15-15	BOJKC4	11/14/96	11/20/96	7.9	1100	<2.0
299-W15-18	BOJKC5	11/14/96	11/20/96	26	2400	3.8
299-W15-19	BOJKC6	11/14/96	11/20/96	7	200	<2.0
299-W15-30	BOJ2V8	11/13/96	11/19/96	72	5000	7.9
299-W15-31A	BOJKB6	11/6/96	11/18/96	71	3600	8.5
299-W15-38	BOJ2F8	11/5/96	11/13/96	30	1500	<2.0
299-W15-39	BOJKC7	11/22/96	12/4/96	<2.0	<2.0	<2.0
299-W18-21	BOJKD0	11/14/96	11/20/96	11	1000	<2.0
299-W18-23	BOJKB7	11/13/96	11/19/96	5.2	590	<2.0
299-W18-26	BOJKB8	11/13/96	11/19/96	22	160	<2.0
299-W18-27	BOJKD1	11/18/96	11/20/96	<2.0	240	<2.0
299-W18-28	BOJKD2	11/18/96	11/20/96	4.6	8.9	<2.0
Duplicate @ 299-W18-28	BOJKD6	11/18/96	11/20/96	5.2	14	<2.0
299-W18-30	BOJKD3	11/11/96	11/19/96	11	810	2.4
299-W18-32	BOJKD4	11/6/96	11/18/96	<2.0	<2.0	<2.0
699-39-79	BOJKB9	11/7/96	11/18/96	13	760	<2.0
Trip Blank	BOJKD7	11/5/96	11/13/96	<2.0	<2.0	<2.0
Trip Blank	BOJKD8	11/6/96	11/18/96	<2.0	<2.0	<2.0
Trip Blank	BOJKD9	11/7/96	11/18/96	<2.0	<2.0	<2.0
Trip Blank	BOJKF0	11/8/96	11/18/96	<2.0	<2.0	<2.0
Trip Blank	BOJKF1	11/11/96	11/19/96	<2.0	<2.0	<2.0
Trip Blank	BOJKF2	11/12/96	11/19/96	<2.0	<2.0	2.3
Trip Blank (analysis #2)	BOJKF2	11/12/96	11/19/96	<2.0	<2.0	2.2
Trip Blank	BOJKF3	11/13/96	11/19/96	<2.0	<2.0	<2.0
Trip Blank	BOJKF4	11/14/96	11/20/96	<2.0	<2.0	<2.0
Trip Blank	BOJG1	11/18/96	11/20/96	<2.0	<2.0	<2.0
Trip Blank	BOJG2	11/22/96	12/4/96	<2.0	<2.0	<2.0

j - Value less than practical quantitation limit

Analyst:

R.T. Coffman
R.T. Coffman

Analyst:

R.B. Kerkow
R.B. Kerkow

VOA Instrument: Hewlett Packard 5890 GC, Serial # 3235A47685
 Method: Dual DB-VRX columns, ECD/FID, 1 mL headspace injection
 Logbook: 200-ZP-1 Field Logbook, EL-1273, pgs 104 to 114

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-25		Page 1 of 1	
Collector <i>K. Trapp / R. Fahlberg</i>		Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field			
Project Designation 200-ZP-1 Phase II Performance Monitoring - 1997		Sampling Location 200 West				SAF No. B97-001					
Ice Chest No.		Field Logbook No. <i>EL-1330</i>				Method of Shipment hand deliver					
Shipped To Mobile Laboratory		Offsite Property No. N/A				Bill of Lading/Air Bill No. N/A					
POSSIBLE SAMPLE HAZARDS/REMARKS None		Preservation		HCl to pH <2 Cool 4C							
		Type of Container		sGs*							
		No. of Container(s)		1							
Special Handling and/or Storage maintain samples between 2 and 6 degrees C		Volume		40ml							
SAMPLE ANALYSIS				See item (1) in Special Instructions.							
Sample No.	Matrix *	Sample Date	Sample Time								
BOJ2F6	Water	<i>11/5/96</i>	<i>1219</i>	<i>X</i>							
<i>BOJ2D7</i>	<i>W</i>	<i>11/5/96</i>	<i>0815</i>	<i>X</i>							
<i>BOJ2F8</i>	<i>W</i>	<i>11/5/96</i>	<i>1320</i>	<i>X</i>							
CHAIN OF POSSESSION		Sign/Print Names				SPECIAL INSTRUCTIONS (1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)					
Relinquished By <i>K. Trapp / K. Trapp</i>		Date/Time <i>11-10</i>		Received By <i>[Signature]</i>		Date/Time <i>11-10</i>		Matrix * S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other			
Relinquished By <i>[Signature]</i>		Date/Time <i>0900</i>		Received By <i>[Signature]</i>		Date/Time <i>0900</i>					
Relinquished By <i>[Signature]</i>		Date/Time <i>11-6-96</i>		Received By <i>[Signature]</i>		Date/Time <i>11-6-96</i>					
Relinquished By		Date/Time		Received By		Date/Time					
Relinquished By		Date/Time		Received By		Date/Time					
LABORATORY SECTION		Received By		Title				Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By				Date/Time			

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-30		Page 1 of 1				
Collector <i>K. Tripp / R. Fahlberg</i>		Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field						
Project Designation 200-ZP-1 Phase II Performance Monitoring - 1997		Sampling Location 200 West		SAF No. B97-001										
Ice Chest No.		Field Logbook No. <i>EL-133C</i>		Method of Shipment hand deliver										
Shipped To Mobile Laboratory		Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A										
POSSIBLE SAMPLE HAZARDS/REMARKS None		Preservation		HCl to pH <2 Cool 4C										
		Type of Container		asGs*										
		No. of Container(s)		1										
Special Handling and/or Storage maintain samples between 2 and 6 degrees C		Volume		40ml										
SAMPLE ANALYSIS				See item (1) in Special Instructions.										
Sample No.	Matrix *	Sample Date	Sample Time											
BOJKB6	Water	11/6/96	0726 ¹²²²	X	KT 11/12/96									
BOJKD8	W	11/6/96	1222 0750	X	KT 11/12/96									
BOJKD4	W	11/6/96	1343	X										
CHAIN OF POSSESSION		Sign/Print Names				SPECIAL INSTRUCTIONS (1) VOA BY FIELD GC - Chlorinated Hydrocarbon {Carbon tetrachloride, Chloroform, Trichloroethene}					Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other			
Relinquished By <i>R. Fahlberg</i>		Date/Time <i>11-6-96 1430</i>		Received By <i>R. Fahlberg</i>									Date/Time <i>11-6-96 1430</i>	
Relinquished By <i>R. Fahlberg</i>		Date/Time <i>11-15-96</i>		Received By <i>R. Fahlberg</i>									Date/Time <i>11-15-96</i>	
Relinquished By <i>R. Fahlberg</i>		Date/Time <i>11-14-96</i>		Received By <i>R. Fahlberg</i>									Date/Time <i>11-14-96</i>	
Relinquished By		Date/Time		Received By									Date/Time	
LABORATORY SECTION		Received By		Title		Date/Time								
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time								

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-33		Page 1 of 1			
Collector B. Fahlberg				Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field			
Project Designation 200-ZP-1 Phase II Performance Monitoring - 1997				Sampling Location 200 West		SAF No. B97-001							
Ice Chest No.				Field Logbook No. EL1330		Method of Shipment hand deliver							
Shipped To Mobile Laboratory				Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A							
POSSIBLE SAMPLE HAZARDS/REMARKS None				Preservation		HCl to pH <2 Cool 4C							
				Type of Container		aGs*							
				No. of Container(s)		1							
Special Handling and/or Storage maintain samples between 2 and 6 degrees C				Volume		40ml							
SAMPLE ANALYSIS						See item (I) in Special Instructions.							
Sample No.		Matrix *	Sample Date	Sample Time									
BOJKB9		Water	11.7.96	1042	X								
BOJSC1		Water	11.7.96	1229	X								
BOJKD9		Water	11.7.96	0750	X								
CHAIN OF POSSESSION		Sign/Print Names				SPECIAL INSTRUCTIONS (1) VOA BY FIELD GC - Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)							
Relinquished By		Date/Time		Received By								Date/Time	
B. Fahlberg		1450 11-7-96		JR Freeman-Pollard								1450 11-7-96	
Relinquished By		Date/Time		Received By								Date/Time	
JR Freeman-Pollard		11:15 11-14-96		RT Coffman								11:15 11-14-96	
Relinquished By		Date/Time		Received By		Date/Time		Matrix * S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other					
Relinquished By		Date/Time		Received By		Date/Time							
Relinquished By		Date/Time		Received By		Date/Time							
LABORATORY SECTION		Received By				Title		Date/Time					
FINAL SAMPLE DISPOSITION		Disposal Method				Disposed By		Date/Time					

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-34		Page 1 of 1			
Collector <i>R. F. Gilling</i>				Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field			
Project Designation 200-ZP-1 Phase II Performance Monitoring - 1997				Sampling Location 200 West		SAF No. B97-001							
Ice Chest No.				Field Logbook No. <i>EL 1303 1330 RS</i>		Method of Shipment hand deliver							
Shipped To Mobile Laboratory				Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A							
POSSIBLE SAMPLE HAZARDS/REMARKS None				Preservation		HCl to pH <2 Cool 4C							
				Type of Container		aGs*							
				No. of Container(s)		1							
Special Handling and/or Storage maintain samples between 2 and 6 degrees C				Volume		40ml							
SAMPLE ANALYSIS						See item (1) in Special Instructions.							
Sample No.	Matrix *	Sample Date	Sample Time										
BOJKCO	Water	11.8.96	1245	X									
BOJKFO	Water	11.8.96	0750	X									
CHAIN OF POSSESSION		Sign/Print Names											
		Relinquished By		Date/Time		Received By		Date/Time		SPECIAL INSTRUCTIONS (1) VOA BY FIELD GC - Chlorinated Hydrocarbon {Carbon tetrachloride, Chloroform, Trichloroethene}		Matrix * S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other	
		<i>R. F. Gilling</i>		11.8.96		<i>R. F. Gilling</i>		11-8-96					
		<i>R. F. Gilling</i>		11:15		<i>R. F. Gilling</i>		11-14-96					
		<i>R. F. Gilling</i>		11-14-96		<i>R. F. Gilling</i>		11-14-96					
Relinquished By		Date/Time		Received By		Date/Time							
Relinquished By		Date/Time		Received By		Date/Time							
LABORATORY SECTION		Received By		Title		Date/Time							
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time							

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-49		Page 1 of 1		
Collector <i>R. Fahlberg</i>			Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field			
Project Designation 200-ZP-1 Phase II Performance Monitoring -- 1997			Sampling Location 200 West			SAF No. B97-001						
Ice Chest No.			Field Logbook No. <i>EL-1330</i>			Method of Shipment hand deliver						
Shipped To Mobile Laboratory			Offsite Property No. N/A			Bill of Lading/Air Bill No. N/A						
POSSIBLE SAMPLE HAZARDS/REMARKS None			Preservation		HCl to pH <2 Cool 4C							
			Type of Container		sgs*							
			No. of Container(s)		1							
Special Handling and/or Storage maintain samples between 2 and 6 degrees C			Volume		40ml							
SAMPLE ANALYSIS					See item (1) in Special Instructions.							
Sample No.	Matrix *	Sample Date	Sample Time									
B0JKD5	Water	11-8-96	1345	X								
CHAIN OF POSSESSION		Sign/Print Names				SPECIAL INSTRUCTIONS (1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)					Matrix * S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other	
Relinquished By <i>R. Fahlberg</i>		Date/Time 11-8-96	Received By <i>R. Fahlberg</i>		Date/Time 11-8-96							
Relinquished By <i>R. Fahlberg</i>		Date/Time 11-11-96	Received By <i>R. Fahlberg</i>		Date/Time 11-11-96							
Relinquished By <i>R. Fahlberg</i>		Date/Time 11-14-96	Received By <i>R. Fahlberg</i>		Date/Time 11-14-96							
Relinquished By		Date/Time	Received By		Date/Time							
LABORATORY SECTION		Received By				Title				Date/Time		
FINAL SAMPLE DISPOSITION		Disposal Method				Disposed By				Date/Time		

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-23		Page 1 of 1			
Collector <i>R. Fehlborg</i>				Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field			
Project Designation 200-ZP-1 Phase II Performance Monitoring -- 1997				Sampling Location 200 West		SAF No. B97-001							
Ice Chest No.				Field Logbook No. <i>EL-1330</i>		Method of Shipment hand deliver							
Shipped To Mobile Laboratory				Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A							
POSSIBLE SAMPLE HAZARDS/REMARKS None				Preservation		HCl to pH <2 Cool 4C							
				Type of Container		aGs*							
				No. of Container(s)		1							
Special Handling and/or Storage maintain samples between 2 and 6 degrees C				Volume		40ml							
SAMPLE ANALYSIS						See item (1) in Special Instructions.							
Sample No.		Matrix *		Sample Date		Sample Time							
BOJ2F4		Water		11-11-96		1203		X					
BOJ2F1		Water		11-11-96		0750		X					
BOJKD3		Water		11-11-96		1310		X					
CHAIN OF POSSESSION		Sign/Print Names											
		Relinquished By		Date/Time		Received By		Date/Time		SPECIAL INSTRUCTIONS (1) VOA BY FIELD GC -- Chlorinated Hydrocarbon {Carbon tetrachloride, Chloroform, Trichloroethene}		Matrix * S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other	
		<i>R. Fehlborg</i>		11-11-96		<i>B. Whitton</i>		11-11-96					
		<i>Geo</i>		11-11-96		<i>RT Coffman</i>		11-11-96					
		<i>B. Whitton</i>		11-11-96		<i>RT Coffman</i>		11-11-96					
Relinquished By		Date/Time		Received By		Date/Time							
Relinquished By		Date/Time		Received By		Date/Time							
LABORATORY SECTION		Received By		Title						Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By						Date/Time			

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-32		Page 1 of 1	
Collector <i>A. Rizzo / M. Menikoff</i>				Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field	
Project Designation 200-ZP-1 Phase II Performance Monitoring - 1997				Sampling Location 200 West		SAF No. B97-001					
Ice Chest No.				Field Logbook No. <i>EL-1330</i>		Method of Shipment hand deliver					
Shipped To Mobile Laboratory				Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A					
POSSIBLE SAMPLE HAZARDS/REMARKS None				Preservation		HCl to pH <2 Cool 4C					
				Type of Container		aGs*					
				No. of Container(s)		1					
Special Handling and/or Storage maintain samples between 2 and 6 degrees C				Volume		40ml					
SAMPLE ANALYSIS						See item (1) in Special Instructions.					
Sample No.		Matrix *		Sample Date		Sample Time					
B0JK88		Water		11/12/96		1100		X	<i>BW</i>		
B0JKF3		W		11/12/96		0740		X			
B0JDF5		W		11-12-96		1325		X			
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS (1) VOA BY FIELD GC - Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)			
Relinquished By <i>A.G. Rizzo</i>		Date/Time 11/12/96		Received By <i>K. J. Trapp</i>		Date/Time 11/12/96		Matrix * S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other			
Relinquished By <i>K. J. Trapp</i>		Date/Time 11/14/96		Received By <i>13 White</i>		Date/Time 11-14-96					
Relinquished By <i>13 White</i>		Date/Time 11-14-96		Received By <i>RT Coffman</i>		Date/Time 11-14-96					
Relinquished By		Date/Time		Received By		Date/Time					
LABORATORY SECTION		Received By				Title				Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method				Disposed By				Date/Time	

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-29	Page 1 of 1			
Collector <i>M. mehlhorn / A. Rizzo</i>		Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field				
Project Designation 200-ZP-1 Phase II Performance Monitoring -- 1997		Sampling Location 200 West		SAF No. B97-001								
Ice Chest No.		Field Logbook No. <i>EL-1330</i>		Method of Shipment hand deliver								
Shipped To Mobile Laboratory		Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A								
POSSIBLE SAMPLE HAZARDS/REMARKS None		Preservation		HCl to pH <2 Cool 4C								
		Type of Container		aGs*								
		No. of Container(s)		1								
Special Handling and/or Storage maintain samples between 2 and 6 degrees C		Volume		40ml								
SAMPLE ANALYSIS				See item (I) in Special Instructions.								
Sample No.	Matrix *	Sample Date	Sample Time									
B0JJV8	Water	11-13-96	1144	X								
B0TKF3	water	11-13-96	0747	X								
B0TKB8	water	11-13-96	1226	X								
B0TKB7	water	11-13-96	1303	X								
CHAIN OF POSSESSION		Sign/Print Names			SPECIAL INSTRUCTIONS					Matrix *		
Relinquished By <i>Monty Mehlhorn</i>		Date/Time <i>11/13/96</i>	Received By <i>[Signature]</i>		(1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)					S = Soil		
Date/Time <i>1352</i>		Received By <i>[Signature]</i>		Date/Time <i>11-13-96</i>						SE = Sediment		
Relinquished By <i>[Signature]</i>		Date/Time <i>11:15</i>	Received By <i>[Signature]</i>		Date/Time <i>11-14-96</i>						SO = Solid	
Date/Time <i>11-14-96</i>		Received By <i>[Signature]</i>		Date/Time <i>11-14-96</i>						SL = Sludge		
Relinquished By		Date/Time	Received By		Date/Time						W = Water	
Relinquished By		Date/Time	Received By		Date/Time						O = Oil	
Relinquished By		Date/Time	Received By		Date/Time						A = Air	
Relinquished By		Date/Time	Received By		Date/Time						DS = Drum Solids	
Relinquished By		Date/Time	Received By		Date/Time						DL = Drum Liquids	
Relinquished By		Date/Time	Received By		Date/Time						T = Tissue	
Relinquished By		Date/Time	Received By		Date/Time						WI = Wipe	
Relinquished By		Date/Time	Received By		Date/Time						L = Liquid	
Relinquished By		Date/Time	Received By		Date/Time						V = Vegetation	
Relinquished By		Date/Time	Received By		Date/Time						X = Other	
LABORATORY SECTION		Received By			Title	Date/Time						
FINAL SAMPLE DISPOSITION		Disposal Method			Disposed By	Date/Time						

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST								B97-001-38	Page 1 of 1	
Collector A.Rizzo / M.Mehlhorn		Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field				
Project Designation 200-ZP-1 Phase II Performance Monitoring -- 1997		Sampling Location 200 West				SAF No. B97-001						
Ice Chest No.		Field Logbook No. EL-1330				Method of Shipment hand deliver						
Shipped To Mobile Laboratory		Offsite Property No. N/A				Bill of Lading/Air Bill No. N/A						
POSSIBLE SAMPLE HAZARDS/REMARKS None		Preservation		HCl to pH <2 Cool 4C								
		Type of Container		sGs*								
		No. of Container(s)		1								
Special Handling and/or Storage maintain samples between 2 and 6 degrees C		Volume		40ml								
SAMPLE ANALYSIS				See item (I) in Special Instructions.								
Sample No.	Matrix *	Sample Date	Sample Time									
BOJKC4	Water	11-14-96	0935	X								
BoTKF4	Water	11-14-96	0740	X								
BoTKFC6	Water	11-14-96	1028	X								
BoTKCS	Water	11-14-96	1202	X								
BoTKDO	Water	11-14-96	1238	X								
CHAIN OF POSSESSION		Sign/Print Names				SPECIAL INSTRUCTIONS						Matrix *
Relinquished By Marty Mehlhorn		Date/Time 11-14-96	Received By Epc		Date/Time 11-14-96	(1) VOA BY FIELD GC - Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)						S - Soil
Marty Mehlhorn		1400	Epic		1400							SE - Sediment
Relinquished By G.E.		Date/Time 0920	Received By B.G.H.Hm		Date/Time 0920							SO - Solid
G.E. Bechta		11-19-96	R.B. Keen		11-18-96							SL - Sludge
Relinquished By		Date/Time	Received By		Date/Time							W - Water
Relinquished By		Date/Time	Received By		Date/Time							O - Oil
												A - Air
												DS - Drum Solids
												DL - Drum Liquids
												T - Tissue
												WI - Wipe
												L - Liquid
												V - Vegetation
												X - Other
LABORATORY SECTION	Received By		Title			Date/Time						
FINAL SAMPLE DISPOSITION	Disposal Method		Disposed By			Date/Time						

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-46		Page 1 of 1			
Collector <i>M. Mehlhorn / A. Bizzio</i>				Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field			
Project Designation 200-ZP-1 Phase II Performance Monitoring -- 1997				Sampling Location 200 West		SAF No. B97-001							
Ice Chest No.				Field Logbook No. <i>EL-1330</i>		Method of Shipment hand deliver							
Shipped To Mobile Laboratory				Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A							
POSSIBLE SAMPLE HAZARDS/REMARKS None				Preservation		HCl to pH <2 Cool 4C							
				Type of Container		aGs*							
				No. of Container(s)		1							
Special Handling and/or Storage maintain samples between 2 and 6 degrees C				Volume		40ml							
SAMPLE ANALYSIS						See item (1) in Special Instructions.							
Sample No.		Matrix *		Sample Date		Sample Time							
BOJKD2		Water		11-18-96		1118		X					
BOJKP6		Water		11-18-96		1118		X					
BOJKD1		Water		11-18-96		1152		X					
BOJkG1		Water		11-18-96		0740		X					
CHAIN OF POSSESSION		Sign/Print Names				SPECIAL INSTRUCTIONS (1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene) <div style="float: right;"> Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other </div>							
Relinquished By <i>Monty Mehlhorn</i>		Date/Time <i>11-18-96</i>		Received By <i>Joe White</i>								Date/Time <i>11-18-96</i>	
Relinquished By <i>Joe White</i>		Date/Time <i>11-18-96</i>		Received By <i>R.B. Keaton</i>								Date/Time <i>11-18-96</i>	
Relinquished By		Date/Time		Received By								Date/Time	
Relinquished By		Date/Time		Received By								Date/Time	
LABORATORY SECTION		Received By				Title		Date/Time					
FINAL SAMPLE DISPOSITION		Disposal Method				Disposed By		Date/Time					

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						B97-001-41		Page 1 of 1			
Collector <i>K. Trapp / D. Galt</i>				Company Contact JR Freeman-Pollard		Telephone No. 509-372-9347		Project Coordinator Koerner, CC		Data Turnaround 0 Field			
Project Designation 200-ZP-1 Phase II Performance Monitoring -- 1997				Sampling Location 200 West		SAF No. B97-001							
Ice Chest No.				Field Logbook No. <i>EL-1330</i>		Method of Shipment hand deliver							
Shipped To Mobile Laboratory				Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A							
POSSIBLE SAMPLE HAZARDS/REMARKS None				Preservation		HCl to pH <2 Cool 4C							
				Type of Container		aGs*							
				No. of Container(s)		1							
Special Handling and/or Storage maintain samples between 2 and 6 degrees C				Volume		40ml							
SAMPLE ANALYSIS						See item (1) in Special Instructions.							
Sample No.		Matrix *		Sample Date		Sample Time							
B0JKC7		Water		11-22-96		111C		X					
B0JKG2		W		11/22/96		0820		X					
CHAIN OF POSSESSION		Sign/Print Names											
		Relinquished By		Date/Time		Received By		Date/Time		SPECIAL INSTRUCTIONS (1) VOA BY FIELD GC -- Chlorinated Hydrocarbon (Carbon tetrachloride, Chloroform, Trichloroethene)		Matrix * S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other	
		<i>K. Trapp / K. Trapp</i>		11/22/96		<i>R. J. Coffman</i>		11-22-96					
		<i>R. J. Coffman</i>		0830		<i>R. J. Coffman</i>		0830					
		<i>R. J. Coffman</i>		12-4-96		<i>R. J. Coffman</i>		12-4-96					
		Date/Time		Received By		Date/Time							
Relinquished By		Date/Time		Received By		Date/Time							
LABORATORY SECTION		Received By		Title		Date/Time							
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By						Date/Time			